

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 07120670
PUBLICATION DATE : 12-05-95

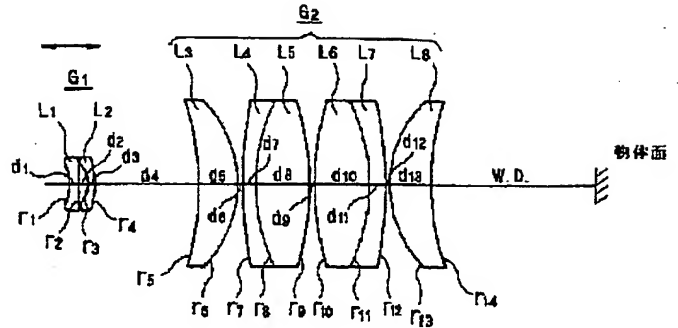
APPLICATION DATE : 22-10-93
APPLICATION NUMBER : 05287808

APPLICANT : MITSUTOYO CORP;

INVENTOR : ARISAWA KATSUYOSHI;

INT.CL. : G02B 13/00 G02B 13/04

TITLE : SCANNING OBJECTIVE LENS



ABSTRACT : PURPOSE: To provide a retro-focus type scanning objective lens in which aberration is corrected over a wide scanning range.

CONSTITUTION: The scanning objective lens consists of a first lens group G1 having negative refracting power and a second lens group G2 having positive refracting power. The G1 is formed out of concave meniscus lenses L1, L2, and the G2 is formed out of a composed lens consisting of a convex meniscus lens L3, a concave meniscus lens L4 and a convex lens L5, and a composed lens consisting of a convex lens L6, a concave meniscus lens L7, and a convex meniscus lens L8. When the focus distances of the G1 and G2 are F_1 , F_2 , the refraction index of L1, L2 is N_1 , the refraction index of L3 and L8 is N_{2p} , the refraction index of L4, L7 is N_{2cn} , and the refraction index of L5, L6 is N_{2cp} , expressions of $N_1 > 1.6$, $N_{2p} > 1.6$, $N_{2cn} - N_{2cp} > 0.2$, $2 < |F_1| < 10$, and $2 < |F_2 / F_1| < 6$ are satisfied.

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